## Accurpress Tooling

COMPLETE TOOLING SYSTEMS



**ACCUIPRESS** 



#### WHY CHOOSE ACCURPRESS TOOLING?

Whether you are looking for standard tooling or special application configurations, Accurpress is committed to the highest level of quality and customer satisfaction. Accurpress Tooling System's primary purpose is to provide you with cost effective, high quality solutions for your forming needs. Our innovative manufacturing processes and attention to detail ensure you the best possible value with Accurpress Tooling.

Creativity and integrity are the cornerstones of our design process, thus enhancing productivity and flexibility of your press brake utilization. Accurpress uses only the finest quality materials to deliver long-life and utmost accuracy from all our products. You can rely on our experience and craftsmanship to facilitate your success.

#### **ACCURPRESS PREMIUM TOOLING**

#### 1 Full Line

Accurpress produces a full line of value-priced press brake tooling available in lengths up to 24', for coining and air bending applications. All tooling can be provided in either planed or ground finishes.

The line includes:

- Custom designs for your special applications
- 85° and 90° forming punches & dies
- Four-way dies
- Gooseneck punches
- 30° forming punches & dies
- Offset die
- Flattening & hemming die
- Rib Dies
- Channel-lock adjustable die
- Conventional and four-way die holders

#### 2 Service

We offer full technical and applications support to back up our product line. Whatever your forming problem, consult us and will provide you with the cost effective solution.

#### 3 Important Options

We offer options such as flame-hardening and polishing of working radii. We can also produce all tooling with whatever style of holding tang you require to suit your machine. All options are quoted on request.

#### 4 Certified Materials

We select only the highest quality pre-hardened brake die material available to manufacture Accurpress Quality Certified Tooling... using 4150 steel with a hardness of 270-300 Brinell. 28-32 HRC.

#### **5** Quality Standards

We produce quality tooling. Each tool is carefully machined with fine finishes, straightened and measured with precision gauges to ensure tolerance that exceed industry standards. Prior to shipment, all tools are coated with a durable rust-proofing compound before packing into crates.

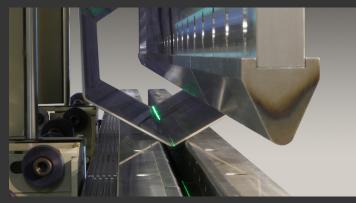
#### 6 Fast Delivery

We make it our goal to provide delivery times that are among the fastest in the industry—thanks to our comprehensive, in-depth stocking program.

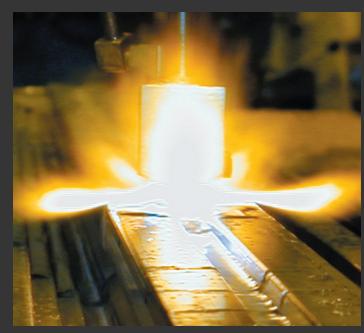
See the complete Accurpress product line at www.accurpress.com.

Press Brakes • Shears • Controls • Gauging Systems • Tooling • Clamping Systems • Die Holders • Accessories • Safety Options • Financing

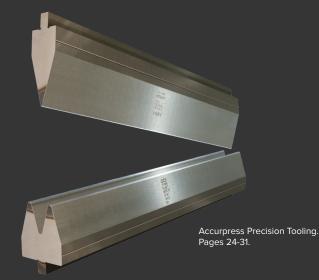
For additional information, or to locate your nearest Accurpress dealer please contact us Toll Free at 877-633-8665.



Accurpress Custom Tooling.



Flame hardening. Page 12.



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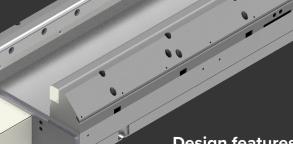
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#### **UNIVERSAL CHANNEL-LOCK ADJUSTABLE DIES**

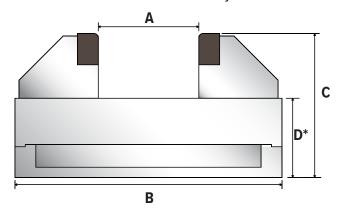
North American made Channel-Lock Adjustable Dies manufactured by Accurpress...made to the highest standards of precision...offering the best solutions to press brake operators.



Design features and options include:

- Power Lock/Unlock System
   Vee-Die Openings at 1" or optional 1/2" steps
- Non-Crowning or Optional Built-in Crowning with manual or CNC adjustment
- Manual Vee-Die or Optional CNC adjustment
- Replaceable Flame Hardened Inserts

#### Adjustable Vee Die Standard Dimensions



Model **	А	В	С	D
1 x 6 w/ Crowning	6	16	8.625	4.75
1 x 6 w/o Crowning	6	16	7.125	3.25
1 x 8 w/ Crowning	8	18	9.125	4.75
1 x 8 w/o Crowning	8	18	7.625	3.25
1 x 10 w/ Crowning	10	21	9.8	4.75
1 x 10 w/o Crowning	10	21	8.3	3.25
1 x 12 w/ Crowning	12	26	11.625	5.5
1 x 12 w/o Crowning	12	26	9.875	3.75

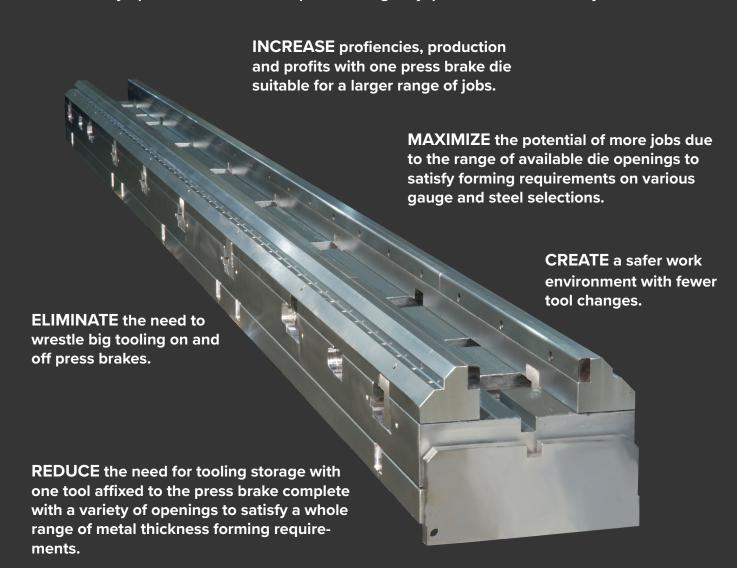
- \* Base height is dependent upon use of Crowning. Non Crowning Adjustable Vee Dies have a lower solid base.
- \*\* Channel-lock Adjustable Vee Dies may be produced in other sizes. Consult with your Dealer and Accurpress Tooling Specialists for channel-lock recommendations to satisfy your application needs.

The highest per/ft tonnage ratings are achievable on the 1" incremental step opening Adjustable Vee Dies.

The per/ft tonnage ratings are reduced on the 1/2" incremental step opening adjustable dies.

#### **VERSATILITY AND PRODUCTIVITY ADVANTAGES**

To maximize efficiency in plate forming applications, the Accurpress Universal Channel-lock die is the best choice and is strongly recommended in shops that are bending heavy plate in various thicknesses. The Accurpress Channel-lock Die offers press brake operators the maximum in flexibility and cost-saving measures. We manufacture units in sizes as defined on page 4, and will review any and all possibilities to provide a Channel-lock in additional sizes suited precisely with the necessary optional accessories to provide longevity, precision and reliability.



**EXTENDED LIFE** with the replaceable hardened radiused shoulder Inserts.



#### SUPER HEAVY-DUTY AND CUSTOMIZED CHANNEL-LOCK DIES

Accurpress manufactures "Super Heavy-Duty Channel-Lock Dies" for the most demanding jobs with high concentrated loads. These dies may be pruchased with Manual Lock/Unlock risers or with an Optional Power Lock/Unlock System. Additional options such as Crowning and Vee-Die adjustability are available to satisfy the many forming requirements.

### NO JOB IS TOO BIG FOR ACCURPRESS!!!!

Accurpress Tooling Specialists will define and recommend the best possible solutions for the endless special applications that exist.



Massive Channel-lock produced for a high tonnage Accurpress with up to 30-inches of Vee-die openings for forming between the side frames of the press brake.

#### CROWNABLE CHANNEL-LOCK OPTIONS AND ACCESSORIES



#### AiM Angle Measuring System

For the ultimate in heavy metal forming accuracy, Accurpress offers the AiM angle measuring system imbedded into the top risers. The AiM operates via sensors that detect slight variations in material thickness and spring back and makes instant adjustments resulting in highly precise formed pieces

#### 1/2" Minimum Vee-opening w/ 1/2" incremental Vee-openings

The Channel-lock may be purchased with the option for 1/2" increments and 1/2" minimum vee openings in lieu of 1" increments and 1" minimum opening. (See the per foot tonnage notation on page 4 concerning this option.)

#### **CNC Vee-opening Adjustment**

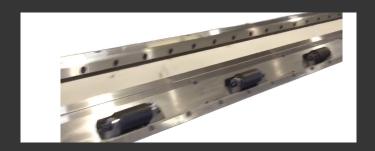
To maximize efficiency and productivity, Accurpress offers a CNC Vee-opening Adjustment option integrated into the ETS3000 or the VISION Control. The risers will position to the specific programmed opening.

#### **Crowning Adjustment**

Channel-locks manufactured by Accurpress may be purchased with the optional built-in crowning system. An excellent feature for the majority of forming applications. Crowning may be adjusted manually, or may be ordered with the optional CNC power drives configured to Accurpress control systems.

#### Plate Rollers

To provide further ease of moving heavy plate into position, plate rollers mounted in the top Channel-lock risers may be purchased.





#### **ACCURPRESS CUSTOM TOOLING TO YOUR SPECIFICATIONS**

Accurpress Has Your Custom Tooling Solutions. Dedicated Tooling Specialists are Just a Phone Call Away!

We have several dedicated tooling specialists on staff to provide cost effective solutions for your special forming 

Turn to Accurpress for great service, requirements.

Accurpress offers turnkey applications

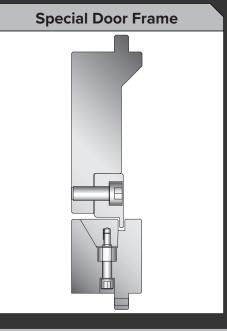
tested and proven in our factory.

timely delivery and competitive pricing.

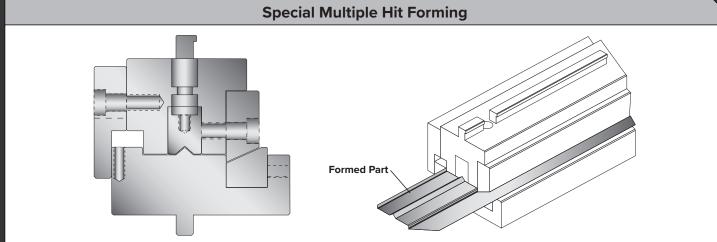
For further tooling and dealer information, call Accurpress Tooling Systems at 1-877-633-8665.

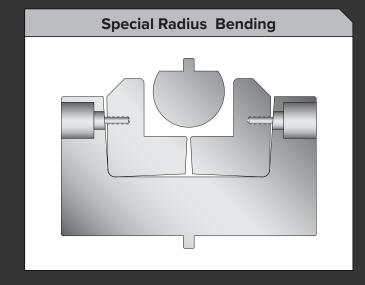


**Special Curling Punch** 



4-Way 3-Hvac A = 2.000" @ 85° B = 0.500" @ 30° C = 0.625" @ 85° with notch for 1/4" flange D = 1.125" @ 85° \* Disappearing Spring Pins for locating sheetmetal – 3 total





Call Us Toll Free at 877-633-8665 to Discuss Your Custom Tooling Applications.



#### **ACCURCROWN... ELIMINATE SHIMMING**

### REDUCE COSTLY SETUP TIME - INCREASE YOUR PROFITS

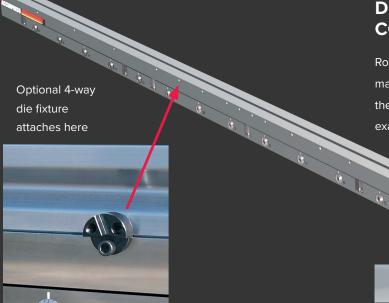
Shimming press brake tooling is eliminated when you use an Accurrown die holder system. The Accurrown system is manufactured with a series of precision wedges providing a uniform crown, which may be adjusted manually or power interfaced to the Accurpress ETS3000 CNC system.

### CROWNING DIE HOLDER SYSTEMS ARE OFFERED IN TWO SIZES

- 3.5" wide x 3.75" high:
  - Suitable for small to mid-range tonnages
  - Suitable for 4-way block sizes up to 3.25"
- 6.0" wide x 3.75" high:
  - Suitable for large tonnages
  - Suitable for 4-way block sizes up to 5.75"

### DIGITAL COUNTER

Rotating the handle on the manual holder adjusts the crown from the center out. An LED counter displays the exact crown in thousandths of an inch.



#### **OPTIONAL 4-WAY DIE FIXTURE**

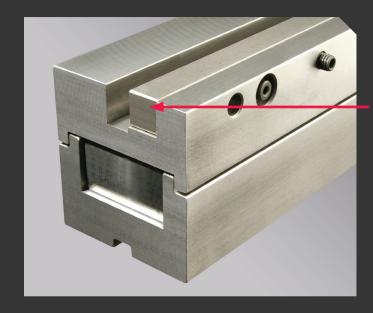
Optional 4-way die fixtures are available which are bolted to the top of the crowning unit, and rotate to suit various 4-way tooling sizes.



### LOCALIZED DIAL ADJUSTMENTS

The Accurrown also has localized adjustments every 8" – a great feature whereby an operator can adjust for worn tooling or compensate for any tolerances that exist in the press brake bed.

Adjustment is made by simply rotating each dial to raise or lower the crown height at any given point.



### OPTIONAL CLAMPING BAR CONFIGURATION

The Manual Clamping Bar configuration is a cost effective solution for securing sectionalized lower tooling in the die holder. Clamping Bars are manufactured in 24" lengths.



### OPTIONAL A-3 HYDRAULIC CLAMPING BAR

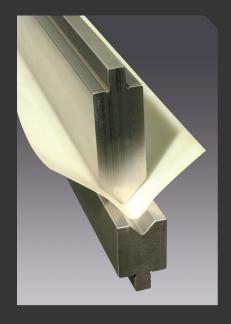
The Wila A-3 Hydraulic Clamping Accurrown features all the items as illustrated and described on page 12 plus... a Wila A-3 Hydraulic Clamping Pin System inserted into the top bar. This unit may be purchased as either manual or CNC crowning.



#### **DIE POLISHING**

As an additional service, we can polish the working surfaces to reduce the risk of galling, dimpling and other markings on your products.

For further protection against marking finished products consider using Urethane Protective Die Film.



#### PROTECTIVE DIE FILM

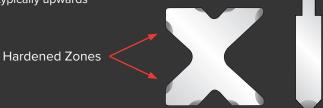
Urethane Protective Die Film is a highly durable material used to act as a barrier against steel on steel rubbing.

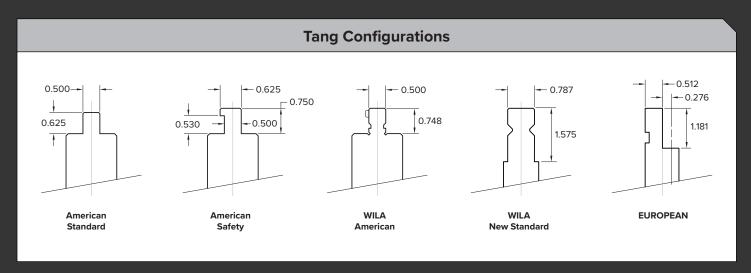
This protective film is available in 4" and 6" widths at either .015" or .030" thickness.



Get the most from your new tools with factory flame hardening. Flame hardening, a strongly recommended option which increases point of contact hardness to 45-50 HRC, ensures longer tool life – typically upwards of 100% – 300%.





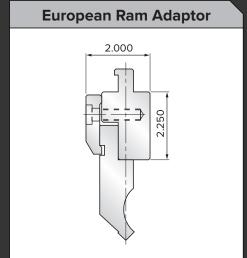


#### **EUROPEAN RAM ADAPTOR**

Accurpress offers the solution for those who wish to utilize their press brake with both American and European style tooling.



This Adaptor, as pictured and illustrated, has an American tang to mount into an American Style ram with the conversion for European style tooling. The advantage of this Adaptor is the short height in order to minimize the loss of ram open/closed height.



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#### **BENDING REFERENCE GUIDE**

#### **TONNAGE CHART**

Accurate tonnage requirements and recommended model selections, based on a wide range of materials, can be determined by using the Accurpress Tonnage Calculator, which can be accessed online, at www.accurpress.com.



#### MILD STEEL BENDING TONNAGES

The chart below illustrates the appropriate tonnages to air bend mild steel with 60,000 p.s.i. tensile properties. It must be noted that most North American steel mills are producing harder metals with typical mechanical properties of 44,000 p.s.i. yield and up to 80,000 p.s.i. tensile strengths. The tonnages required to form these metals are substantially higher and must be taken into consideration in the selection of a press brake. With an eight-to-one die ratio, the inside radius of a right angle bend is approximately equal to the thickness of the metal. The bending forces for mild steel are shown on the chart below.

#### **BENDING FORCES FOR OTHER METALS**

Soft brass, soft aluminum: 50% of force shown Aluminum alloys, heat treated: same as mild steel Stainless: 50% more than steel

#### BENDING FORCES FOR OTHER METALS

Tonnage requirements are three to five times greater than for air bending. Coining is normally done in very high precision environments and on light gauge materials only.

#### f = U.S. tons/lineal ft. of workpiece Force to Air-Bend Mild Steel (80,000 PSI Tensile) All dimensions in inches 1 3/4 | 2 3/16 | 2 13/16 | 3 1/2 | 4 1/2 | 5 1/2 | 6 3/8 11/32 7/16 %<sub>16</sub> 11/16 11/8 1 3/8 7∕8 5/64 7/64 5/32 11/32 15/16 15/8 Thickness Inches 20 For steel of different yield strength, **f** value 4.7 3.5 2.8 2.4 F Values based on 80,000 PSI Tensile 0.048 7.1 18 differs in proportion to strength ratio. 7.4 5.5 4.4 3.7 2.8 16 Inside radius $\mathbf{r}$ , for mild steel is about 5/32 0.075 11.5 8.6 **6.9** 5.8 4.3 3.5 of female = die opening $\mathbf{v}$ for any $\mathbf{t}$ . 14 Shaded $\mathbf{f}$ values are for $\mathbf{v} = 8\mathbf{t}$ . **22.6 16.9 13.6 11.3 8.5 6.8 5.6 4.2** 12 common for average 90 bending. If $\mathbf{t}$ is 1/2 inch or more use $\mathbf{v} = 10\mathbf{t}$ . 0.120 22.1 17.7 14.8 **11.1** 8.9 7.4 5.5 4.4 11 14.0 **11.2** 9.3 10 7.0 5.6 43.4 36.2 27.1 21.7 0.188 **18.1** 13.6 10.9 64.0 48.0 38.4 32.0 **24.0** 19.2 1/4 75.2 60.2 50.2 37.6 0.313 **30.1** 25.1 18.8 15.1 12.5 86.4 72.0 54.0 43.2 **36.0** 27.0 21.6 18.0 13.5 10.8 3/8 0.438 117.9 98.2 73.7 58.9 49.1 **36.8** 29.5 24.6 18.4 14.7 0.625 **t** = Workpiece thickness 100.0 75.0 60.0 **50.0** 37.5 30.0 5/8 = Inside radius of formed part 108.0 86.4 72.0 **54.0** 43.2 3/4 v = Vee-die opening f = Minimum flange 0.875 147.0 | 117.6 | 98.0 **73.5** 58.8 7/8

#### **SAFETY WARNING**

Press brake tooling is used in combination with sophisticated machinery and high hydraulic pressure, a situation in which misuse may lead to serious personal injury.

#### To prevent injury:

- 1. Never use our dies in equipment which lacks the proper safeguards to prevent the user's hands or body parts from entering or remaining in the die space while the equipment is in motion.
- **2.** Fully familiarize the die setter with the press brake or machine manual.
- **3.** Ensure all points of operation guards are operational and in place, preventing users from exposing any part of their person to the closing on the machine or press brake.
- **4.** Supply hand tools for inserting, holding, or removing material, keeping hands at a safe distance.
- **5.** Provide users with training in safety practices and procedures. Insist these be followed. Monitor for compliance.
- **6.** Ensure dies are being installed and operated per the instruction manual for the brand and make of machine used.

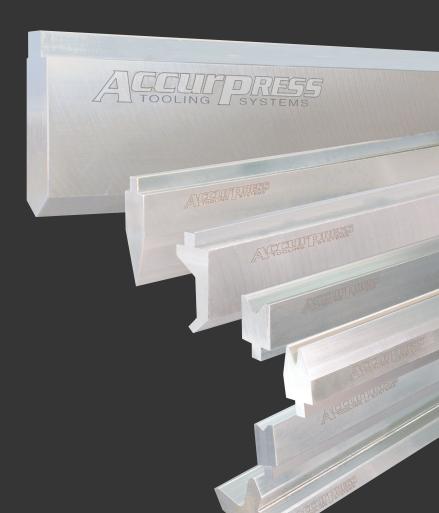
It is our responsibility to produce tooling and dies from quality materials to high standards of manufacturing performance.

It is the user's responsibility to employ them in proper application with due regard to safety.

#### PREMIUM TOOLING

#### **GENERAL PURPOSE "PLANED" TOOLING**

- Each tool is carefully measured and recorded to ensure our tolerances are the top in its class.
- Available in lengths up to 24'.
- Tooling may be ordered with optional polished radii on punches and dies.



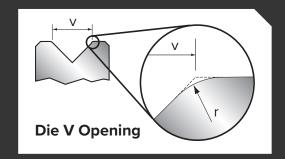
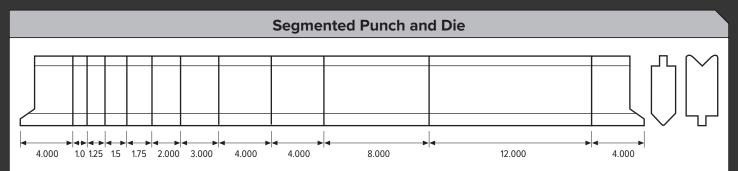


Illustration depicts V opening measurement



- The tooling segments above will yield tool length combinations starting from 1.0"
- Segmented tooling can be cut and milled to your specifications
- Optional left and right horns available
- Optional 'Easy Tabs' can be added for safety

#### **TOOL SET BUILD GUIDE**

#### 1 Tool Set Closed Height

Accurpress Tooling Systems offers special, fully customized tooling to fulfill your fabrication requirements. The following guidelines are designed to assist you in the determination of tooling dimensions.

Model Number	Stroke	Open Height	Closed Height (T)
725	6"	12"	6"
760-7175	8"	14"	6"
7250	8"	16"	8"
7320-7500	10"	18"	8"
7600-7750	12"	20"	8"
71000	14"	22"	8"

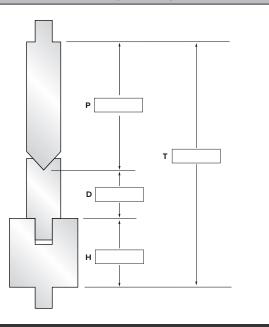
#### 2 Closed Height Formulas

Use the tool set diagram below to determine suitable appropriate tooling sizes. The "T" value in the table above is the closed height of your press brake.

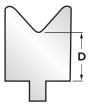
(H) Die Holder Height	H = T - (P + D)
(P) Punch Height	P = T - (D + H)
(D) Die Height*	D = T - (P + H)

\*Note: D value on 4-way dies refers to the largest V-opening.

#### **3** Closed Height Diagram



#### Die Height (D) for Tool Build-up Calculations



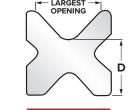
L2 L3 L4 L5 L6 L7 L8 L9 L10

L12 L13 L14

L15

2.25"

2.80"



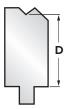


r #	(D)		Order #	(D)
	1.60"		4W1	1.50
	1.50"		4W2	1.75
	1.45"		4W3	2.00
	1.40"	•	4W4	2.25
	1.35"	•	4W5	2.50
	1.30"		4W6	2.75
	1.25"	•	4W7	3.25
	1.15"	•	4W8	3.25
	1.60"		4W9	4.25
	1.50"		4W10	4.75
	1.25"	•	4W11	6.00
	1.00"	•	4W12	7.00
	1.25"			









Order # (D)

1.45"

1.25"

1.05"

1.35" 1.15"

1.50" 1.45"

1.50"

1.35"

L30-1

L30-2

L30-3

L30-4

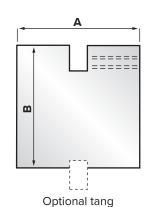
L30-5 L30-6

L30-7 L30-8

L30-9

Order #	(D)
OS1	2.65"
OS2	2.60"
OS3	2.55"
OS4	2.50"
OS5	2.40"
OS6	2.30"
OS7	2.20"
OS8	2.10"
OS9	2.00"

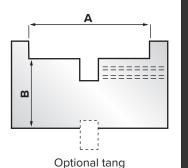
#### **Conventional Die Holders**



Order #	Α	В
DH2 - 11/2	2"1	1/2"
DH2 - 2	2"	2"
DH2 - 3	2"	3"
DH2 - 4	2"	4"
DH2 - 5	2"	5"
DH3 - 11/2	3"	11/2"
DH3 - 2	3"	2"
DH3 - 3	3"	3"
DH3 - 4	3"	4"
DH3 - 5	3"	5"
DH4 - 2	4"	2"
DH4 - 3	4"	3"
DH4 - 4	4"	4"
DH4 - 5	4"	5"
DH5 - 2	5"	2"
DH5 - 3	5"	3"
DH5 - 4	5"	4"
DH5 - 5	5"	5"
DH6 - 6	6"	6"

Other sizes on request

#### **4-Way Holders**



These holders fit pictured 4-way dies, plus special sizes listed below right.

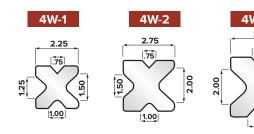
Order #	Α	В
4WH1 - 2	21/4"	2"
4WH1 - 3	21/4"	3"
4WH2 - 2	23/4"	2"
4WH2 - 3	23/4"	3"
4WH3 - 2	31/4"	2"
4WH3 - 3	31/4"	3"
4WH4 - 2	33/4"	2"
4WH4 - 3	33/4"	3"
4WH5 - 2	41/4"	2"
4WH5 - 3	41/4"	3"
4WH5 - 4	41/4"	4"
4WH6 - 2	43/4"	2"
4WH6 - 3	43/4"	3"
4WH6 - 4	43/4"	4"
4WH7 - 2	51/4"	2"
4WH7 - 3	51/4"	3"
4WH7 - 4	51/4"	4"
4WH8 - 2	53/4"	2"
4WH8 - 3	53/4"	3"
4WH8 - 4	53/4"	4"
4WH9 - 2	63/4"	2"
4WH9 - 3	63/4"	3"
4WH10 - 3	73/4"	3"
4WH11 - 3	10"	3"
4WH12 - 3	12"	3"

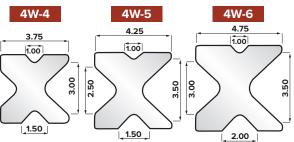
Other sizes on request

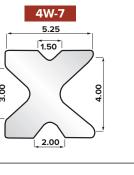
#### **4-Way Dies**

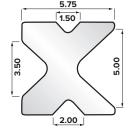
**DIE HOLDERS & 4-WAY DIES** 

Block sizes and openings on 4-way dies can be made to customer specifications, including more than four openings. All openings are 85° unless otherwise specified.



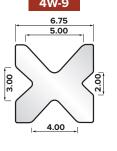




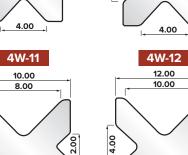


4W-10

4W-8



6.00

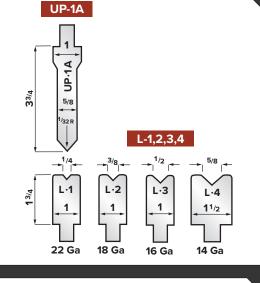


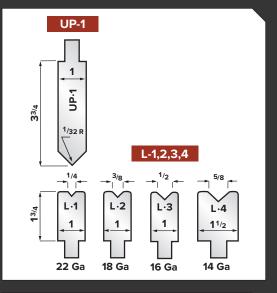
4W-9/10/11/12 not shown to scale

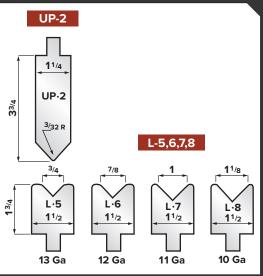
#### 85° TO 90° FORMING PUNCHES & DIES

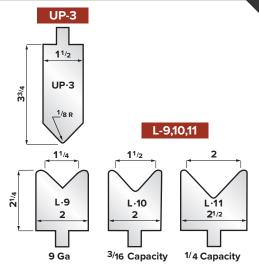
These 85° punch and die combinations are used for air bending techniques.

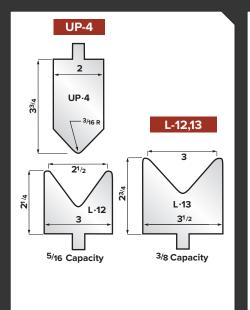
To produce sharp, closetolerance bends in light gauges, 90° punch and die combinations must be specified.

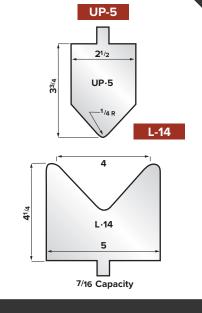


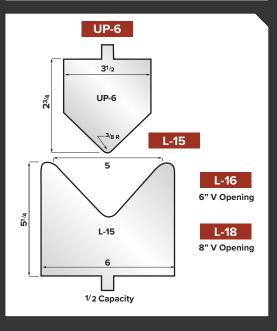




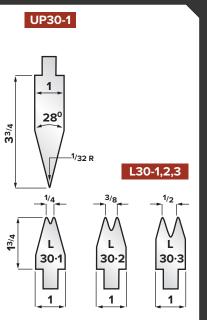


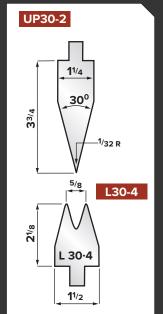


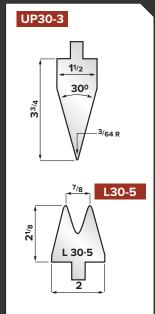


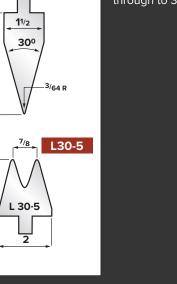


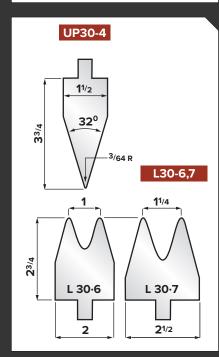
#### 30° FORMING PUNCHES & DIES These dies are used for forming

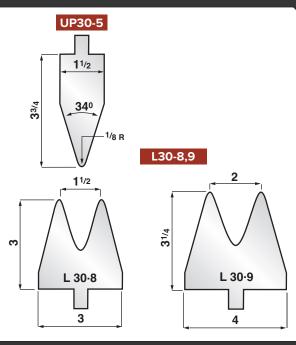












acute angle bends in 22 gauge through to 3/16".



Accurpress General Purpose Tooling

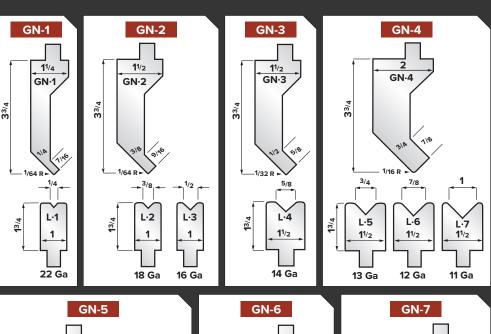
Accurpress General Purpose Tooling

#### **GOOSENECK PUNCHES & DIES**

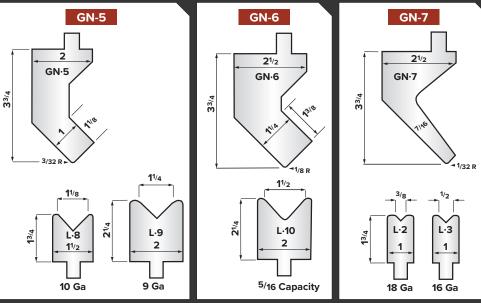
All gooseneck punches and die combinations are machined at 85° for air bend techniques unless otherwise specified.

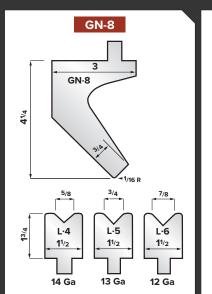
These punches are used for forming right angle bends, channels, or other special bends where a straight 90° punch would interfere.

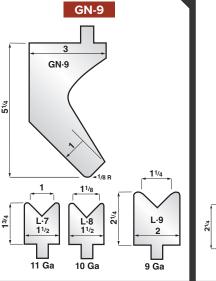
GN #7, 8 and 9 punches are cut back further beyond the centerline for a greater flange.

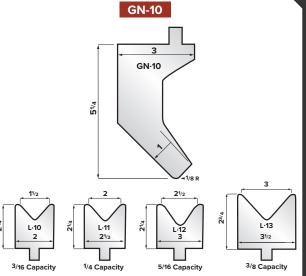












# GN-1 GN-2 GN-3 GN-4 GN-5 GN-6 GN-7 GN-8 GN-9 GN-10

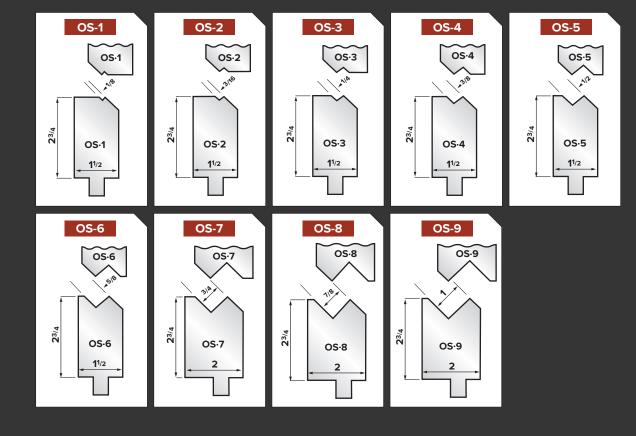
**ALLOWABLE RETURN FLANGES** 

#### **OFFSET DIES**

Offset dies are sold in sets.

General purpose offset dies form two 90° bends in one stroke.





#### **HEMMING DIES**

These combinations are used for hemming on a twostroke operation.

- HM-1 is used to hem 18 gauge or lighter.
- HM-2 is capable of both air-bending and hemming light
- HM-3 is for hemming material heavier than 18 gauge.
- HM-4 can be customized to suit individual applications.

# HM-4 HM-3

HM-1

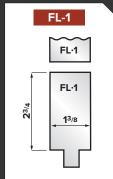
11/4

11/2

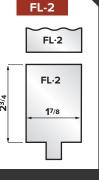
#### **FLATTENING DIES**

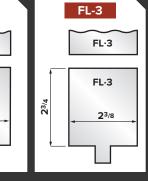
Flattening dies are sold in sets.

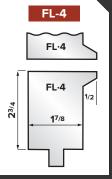
They are used to complete hems, or to close a previously formed angle to a given degree.

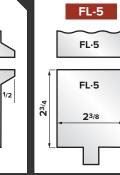


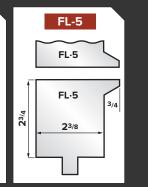








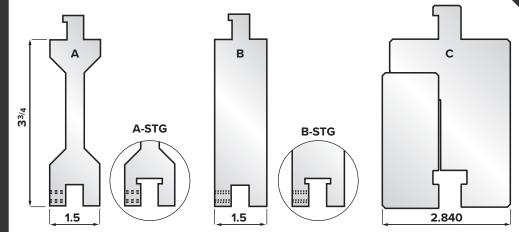




### **RAM ADAPTORS**

Ram adaptors may be necessary to fill up die space if ram adjustment is insufficient, or to suit conditions for В С box forming. The three styles shown are in 33/4" but are available in all heights.

They have safety tangs, and are manufactured from 4150 material.



HM-2

28°♥

r0.035



#### **PRECISION 80° FORMING PUNCHES**

These 80° punch and die combinations are used for air bending techniques.

The Accurpress Precision Tooling line has been designed and manufactured to fill a void in the current North American tooling market between "general purpose +/- 0.003" and "high-end precision +/- 0.0004" tooling.

Accurpress Precision Tooling is precision grade, holding tolerances at +/- .0008", and sold at very cost effective pricing. These tools come in a maximum length of 515mm (20.28") and are produced on top-of-the-line creep feed grinding machines. Each section is laser etched with a full description of the tool as well as its maximum tonnage/ft rating.

In addition, each section of Precision Tooling comes standard with the working radii induction hardened to a minimum of 50 HRC to ensure long-term performance.

#### **Quality Control**

Each section is measured against a master before it is shipped to ensure tolerances are maintained.

#### **Certified Materials**

We use only the finest pre-hardened brake die material available to manufacture the Precision line. Base hardness 270 - 300 Brinell, 28 - 32 HRC.

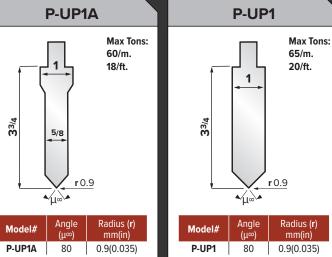
#### Warranty

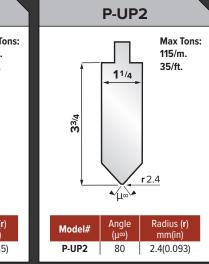
One year on material defect.

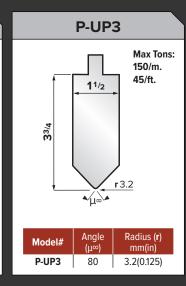
NOTE: The warranty does not cover operator error/misuse (ie.; Over tonnage situations)

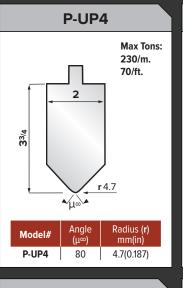


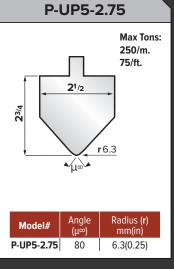
Laser etched tooling description

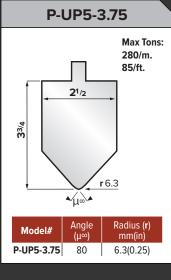




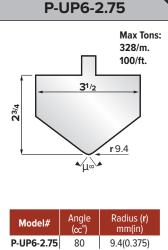


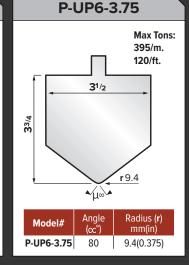












#### **PRECISION 80° DIES**

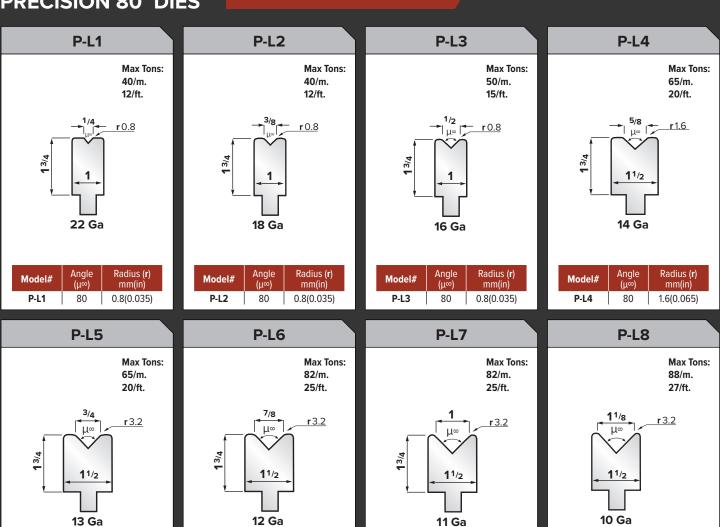
Radius (r)

mm(in)

80 3.2(0.125)

P-L5

#### **PRECISION 80° DIES**



Radius (r)

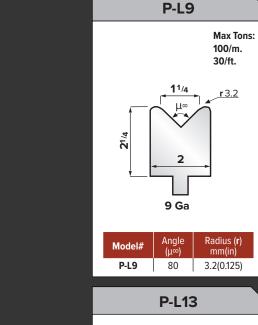
P-L7

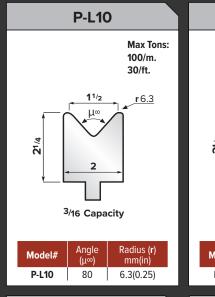
**P-L6** 80 3.2(0.125)

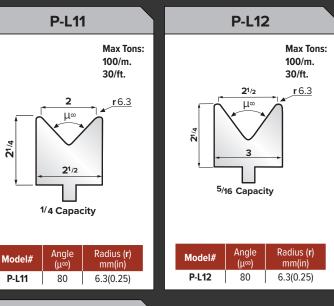
Radius (r)

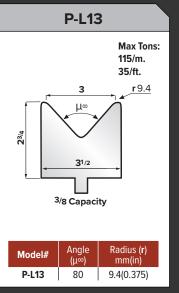
80 3.2(0.125)

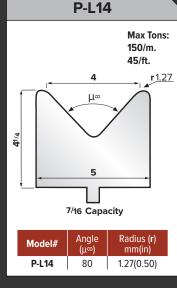
**P-L8** 80 3.2(0.125)

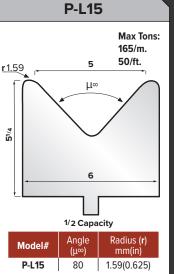










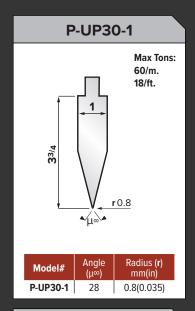


**PRECISION 30° DIES** 

#### **PRECISION 30° FORMING PUNCHES**

These dies are used for forming acute angle bends in 22 gauge through to 3/16".





P-UP30-4

11/2

**P-UP30-4** 32 1.2(0.047)

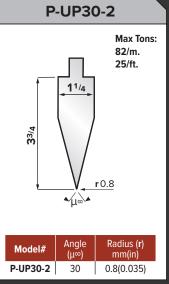
r1.2

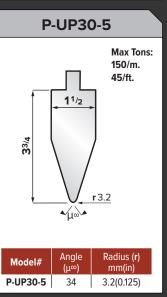
Radius (r)

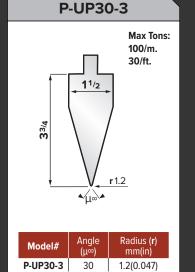
Max Tons:

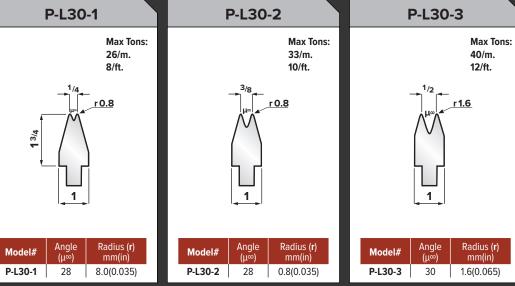
100/m.

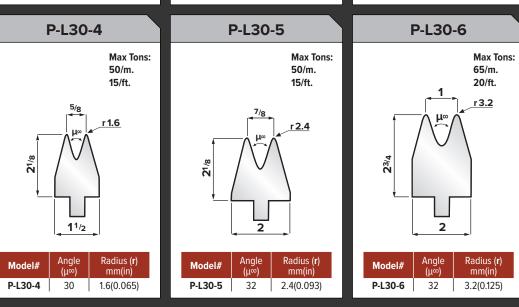
30/ft.

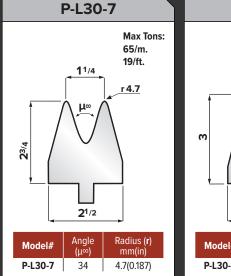


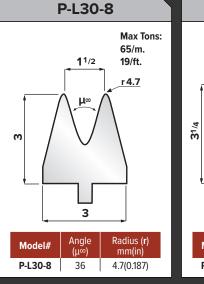


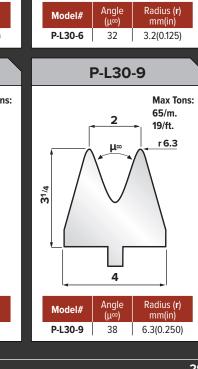








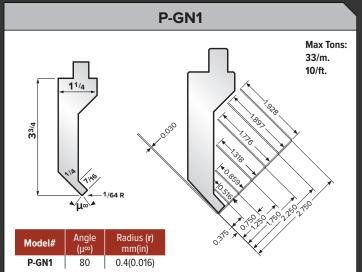


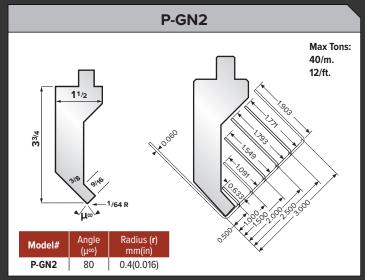


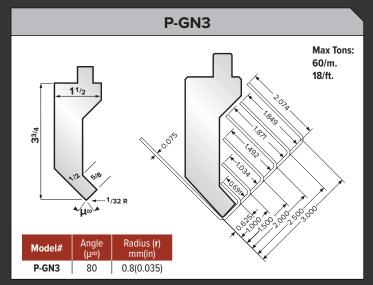
Accurpress Precision Tooling

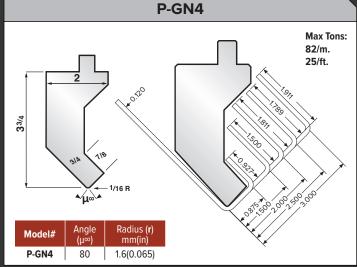
#### PRECISION GOOSENECK PUNCHES

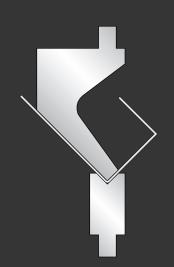
All gooseneck punches and die combinations are machined at 80° for air bend techniques unless otherwise specified. These punches are used for forming right angle bends, channels, or other special bends where a straight 90° punch would interfere.

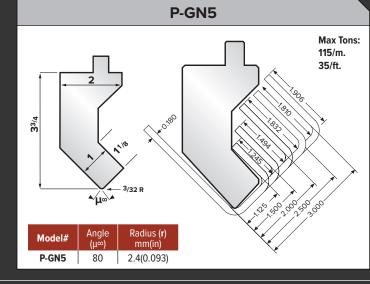






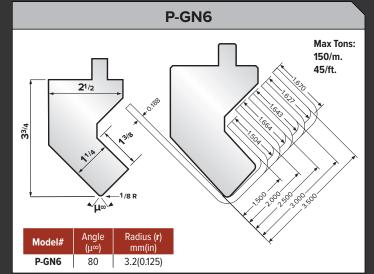


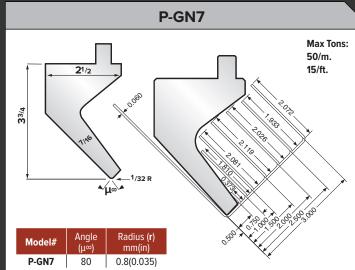


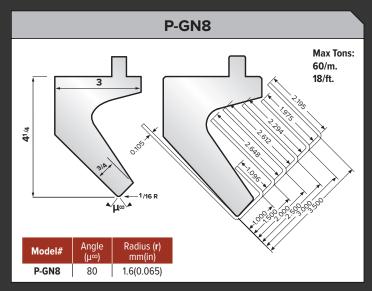


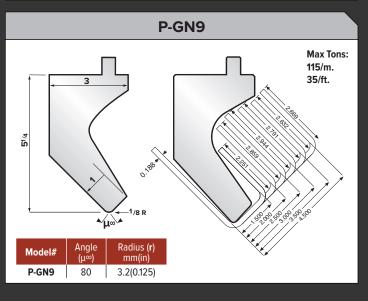
#### PRECISION GOOSENECK PUNCHES

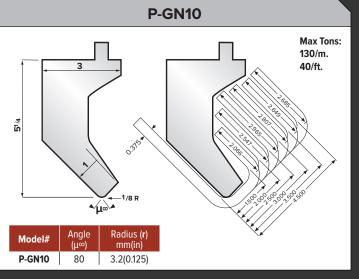
P-GN7, P-GN8 and P-GN9 punches are cut back further beyond the centerline for a greater flange.











#### **Dealer Support Network**

Accurpress Sales & Service is provided by an Authorized Dealer Network. All of our Dealers are factory trained and supported to provide you with knowledgeable, competent, and local service.



**ADVANTAGE**Rugged Design and Intelligent Controls



**ACCELL E**The Competitive Edge



**ACCELL U**Upgrade Package for the Accell E



**ACCELL H**Hybrid Technology



**ACCELL HT**High Tonnage Machines



**Accurshear**Discover Shear Power

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